



3dm3p	VSPRNSCELLS QTVIDALIFL PQTRPAGVFE	[QIHSFGGP] [GPGRSPCS] [ARL]	PC [RJFFRYCCKP] GLSEAAESP [DIALGAAL] SAR GPTVT	91
moused113p	checksum	[QIHSFGGP] [GPGRSPCN] [ARG]	PC [RJFFRYCCKP] GVSQATESL [DIALGAAL] STS VPVVT	97
hdelta1p	CSRCAALAV LS QTLIAFL LL PQALPAGVFE	[QIHSFGGP] [GPGRSPCN] [ARG]	PC [RJFFRYCCKP] YQASVSPEP [DIALGAAL] VTPV LGSDS	91
w80813	maa asr salsgwai 1	[KLQEFVNKK] [GGGPPCAC] [RTFFRYCCKH]	[DIALGAAL] fgtvstpv lgtns 88	
3dm3p	EOPGAPAPDL PLPDGLLQVP	[FRDAMPGTFS] [FITTEI] REEL	[GDQJGGPAW] [SPLARMAG] RRRRAAGP [ARDIDRAAW] EPRAVGTAAT	193
moused113p	EHPGEAAAL PLPDGLVRVP	[FRDAMPGTFS] [MTEI] REQL	[GEHAGPWA]	RLCRP
hdelta1p	FSLPDGGGAD SAFFSNPIRFP	[LITEALHTDS] [ADDLATEN]	[PERLISBLAT] [QSHL] FVGEEW SODLHSSERT	RLCRS
w80813	favndssgg g	[Eddirpealp pda] isk iai	[qgslavggmw] 11degtstlt rlyrsyvlg sdnyygdnscs	194
3dm3p	RSAP S	[RCGGCIRPCA] PLEDE	[QFQEOPGECR] [OLEGMTPLC] TTVVSTSSCL	194
moused113p	RSAP S	[RCGGCIRPCA] PFPDECEAPS	[QLEGWTPLC] TTVVSTSSCL	194
hdelta1p	RDDAFGHFTC GERGEKVNCP	[GKGPYCTEP] [Tqlpqe0]	[DECIRYPGL] HGTCQPIWC NCQEGLGGLF CNDLNYCTH	194
w80813	grdhfghvyc qpdgnlsc1p	gwtgdbycqp igisacheqn	[neciphngcr] hgtcstrpwqc tcdegwgglf ccdqdlnycth	194
3dm3p	ATTGOLVPGP	[GP]	[LGQGGADPDS] AM10HCPPGF	194
moused113p	ASTGOLLPSP	[GP]	[XWQHCPPGF]	194
hdelta1p	NGATONTNTQ	[GTYTCSRPG] YTGATECEGI	[GURCEVSGVII] HGTQCPWQC	194
w80813	ngatgsnsqq	DECOPSPDN	[YSCICELSAM] RSQSPD. GG	194
3dm3p	EXANDRCSSLQ	[PQNGGACLD]	[CADGPFCNIGG] LGQGGADPDS	194
moused113p	EXANDRCSSLQ	[PQNGGACLD]	[XWQHCPPGF]	194
hdelta1p	EKKAJPDY	[PQNGGACLD]	[GADGPFCNIGG] QGSNC	194
w80813	ekkaorctsn	[PQNGGACLD]	[GADGPFCNIGG] QGSNC	194
3dm3p	EXANDRCSSLQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
moused113p	EXANDRCSSLQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
hdelta1p	EVGAYLRCRQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
w80813	ekkaorctsn	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
3dm3p	EVGAYLRCRQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
moused113p	EVGAYLRCRQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
hdelta1p	EVGAYLRCRQ	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194
w80813	ekkaorctsn	[GHALRCR] AGFAGPRCEH	[EGGRDQREPA] [DPCAARPC] AHGGERCYAHF	194

Fig. 1A

3dm3p	VPDQGASALPA APPGLRP GDP QRYLLPPALG	AVVAGVAGA	AVVTRRR	GHSQDAGSRL LAGTPEPSVH ALPDAIINIL	543
moused113p	RPDGADAVPA APRGLRQADP QRFLPPALG	AVVAGVAGA	AVVTRRR	GPGQDTGTRL LSGTREPSVH TLPDALINIL	553
hdelta1p	PNQGFLLPEL PPGPAWVDLT EKLEGQQGPF PWAVACAVI	LMMLLG	LMMLLG	PPADPCR GETETMNLNCQRE	599
w80813	YDQDGFVg srcefpv.g1 ps	f pwavawgvq	lqy1wlg	qrlr. rpdggsr e@mn1s dfqkd	577
3dm3p	... RIIQEGS GDGPSSSDVN	NRPEDVDPQG	IYVISAPSIV	AREA.....	583
moused113p	... RLQDGA GDGPSSSDVN	NHPEDGDSRS	IYVISAPSIV	AREA.....	593
hdelta1p	KDISISIIGA TQIKATNIKKAA DFHGDLSADK	NGFKARYPA VDVNLVQDLK	SKRDTKCPQ	GDDTAVRDAH GSSGEERGTP TTLRGEASE RKRPSGCT SKOTK	703
w80813	n...lipa aqlkrtrqkk elevdcglk	sncgkqqnht 1dyn1adgp1	gqgt.....	mpgkfpbs dks1geka.p lrlhsekepc r...isamcs prdsm	665
3dm3p	.....	.....	.....	.....	583
moused113p	.....	.....	.....	.....	593
hdelta1p	YQSVVWSEE KDECVIATEV	723			
w80813	yqsvvlisee rmecviatev	685			

Fig. 1B

3md3	ATGGTCTCCC CACGGATGTC CGGGGCTCT TGAGTCTCTC GCTCATTTGC	TCCAC	105
moused113n	ATGGTCTGTC TGGAGGTGTC TCCGCTT	GAGCTACAAA	99
hde1ta1n	... ATGGG TGGTGGTGG TGAATCTGGC	TGGGTCCTTC	90
w80813n	Attggcgatgg cgtcccgag ggctctgggc	GAACCTGAGC	105
	ttggcgatgg cgtcccgag ggctctgggc	tgacgttcggc	
3md3	TCTTTTGGCC CGGGTCAAG CGGTCTGGCC CGGGGGTCCC	CCTGCAGG	195
moused113n	TCTTTGGCC CAGGCCAGG CCTGGCTTCC	CGGGTGGCC	189
hde1ta1n	GAGTTGTCA ACAAGAAGGG	AAQGGCAAGT	195
w80813n	gagttdatca acggggcgat gttactggcc	a.....	189
	gagttdatca acggggcgat gttactggcc	gtgggggg	
3md3	CTCTGGGTCT TAGAGGGGGG CGGGGAGTCCC CGGGGGTCCC	GTTGGACTG	300
moused113n	CCGGGAGTCT CCAGGGGGG AACCGAGTCC	AGGGTCCCCG	294
hde1ta1n	CACTAACAGG CAGGCTATTC	AGTGGACG	300
w80813n	gacttccagg ggttagtctt	CGTGGGGCC	289
	gacttccagg ggttagtctt	gtatggcca	
3md3	CTCGGACTTC CGGAAGGGCT CTGAGGGGGG AGGGCTGGG	TGAAACCTG	405
moused113n	CTGGGGCTTC CTGATGGCTT CGTAGCTGGG	GGGGACCTTC	399
hde1ta1n	GAATGGCTT CAAGAACCCC	GGCTTGCTT	405
w80813n	... gcccggaa ggcggaaacc totcgaacct	GGGTTAACCTC	387
	... gcccggaa ggcggaaacc totcgaacct	ccctttaatt	
3md3	GGAGGGCCCG CCTGGG	AGCTTG	501
moused113n	GGAGGGCCCG CCTGGG	AACCTG	495
hde1ta1n	GGAAACAGAAA ACG	AGAAGACT	504
w80813n	cggccaggat Ccttggccacc agatgcactc	ATCAGGCC	492
	cggccaggat Ccttggccacc agatgcactc	atcagaaga	
3md3	TGGGAGGTCG CCTGCTGTA	TGGGGGGG	606
moused113n	TGGGAGGTCG ACTTCTTA	CGGGGCTGG	600
hde1ta1n	AGGGAGCTCA AGTACTCTTA	CGGGTTGTC	609
w80813n	acaaggatcg actacttta	CGGGGCTGAG	597
	acaaggatcg actacttta	tgcactatgg	

Fig. 3A

Fig. 3B

Title: NOTCH RECEPTOR LIGANDS AND USES THEREOF
Express Mail No.: EV398879023US Docket No.: 59516-159/PP-01602.006
USAN: 10/644,548

3md3	AGGCAATGCC	GAAATGGGG	AgttGCGCTG	GACCTGGGCC	AGGCCTGGCTG	GTGCCGGCTG	GTGGGGTCC	CAAGACTTGG	ACGAC	1170
mousedd113n	AGGCAATGCC	AGAAATGGGG	gttgtGCGCTG	GACCTGGGCC	AGGCGCTGGT	GTGGGGCTG	GTGGGGAT	CAAGACTTGG	ACGAC	1176
hde1ta1n	TCACCGTGT	CTAAATGGTC	CAAGTGTGTG	GACCTGGGCC	AGGCGCTGGT	GTGGGGCTG	GTGGGGAG	GAACAGTGG	ACGAC	1338
w80813n	atggccatgtt	caaaatgggg	atggatgttttt	caaggcccat	aaccggatgt	ctactgtaaa	tgacggggat	gttcacgttca	gcqao	1329
3md3	TGGGGGGC	GGGGGGTC	GGGGGGTC	TAACGGGG	ACGTTGTTGG	ACGGGGGGG	GGGGGGGG	GGGGGGCTT	CCCCC	1269
mousedd113n	TGGGGGGC	GGGGGGTC	GGGGGGTC	CAACGGGG	ACGTGGGG	ACGGGGGG	GGGGGGGG	GGGGGGCTT	CCGG	1275
hde1ta1n	TGGGGGGC	GGGGGGTC	GGGGGGTC	GGGGGGG	GGGGGGGG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	CCGA	1437
w80813n	ttggccgttt	atggccgttt	atggccgttt	atggccgttt	tggatgttttt	tggatgttttt	ttggatgttttt	gttcgggggg	tttttttttt	1434
3md3	TGGGGGGC	GGGGGGTC	GGGGGGTC	GGGGGGTC	GGGGGGTC	GGGGGGGG	GGGGGGGG	GGGGGGCTT	GGGGGGGG	1368
mousedd113n	TGGGGGGC	GGGGGGTC	GGGGGGTC	GGGGGGG	GGGGGGG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	GGGGGGGG	1374
hde1ta1n	TGGGGGGC	GGGGGGTC	GGGGGGTC	GGGGGGG	GGGGGGG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	GGGGGGGG	1536
w80813n	ttggccgttt	atggccgttt	atggccgttt	atggccgttt	tggatgttttt	tggatgttttt	ttggatgttttt	gttcgggggg	tttttttttt	1539
3md3	GAGGGGGG	AGGGGGCC	AGGGGGCC	TGTGCTACG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	AGATG	1473
mousedd113n	GAGGGGGG	AGGGGGCC	AGGGGGCC	TGGGGCATG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	AGATG	1479
hde1ta1n	GAGGGGGG	AGGGGGCC	AGGGGGCC	TGGGGCATG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	AGGGGG	1640
w80813n	atatccatca	atatccatca	atatccatca	atatccatca	ttgttcaaca	ttgttcaaca	ttgttcaaca	atctccacag	tttttttttt	1592
3md3	GGAGGGGG	GGAGGGGG	GGAGGGGG	GGGGGGCCC	GGGGGGTGC	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TCTCCG	1578
mousedd113n	GGAGGGGG	GGAGGGGG	GGAGGGGG	GGGGGGCCC	GGGGGGTGC	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TCTCCG	1584
hde1ta1n	GGAGGGGG	GGAGGGGG	GGAGGGGG	GGGGGGCCC	GGGGGGTGC	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TCTCCG	1745
w80813n	atggatgttt	atggatgttt	atggatgttt	atggatgttt	ttggatgttttt	ttggatgttttt	ttggatgttttt	ttggatgttttt	tttttttttt	1688
3md3	GGTGGGGG	TGTGTGGG	TGTGTGGG	GGGGGGCTG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TGGGGT	1683
mousedd113n	GGTGGGGG	TGTGTGGG	TGTGTGGG	GGGGGGCTG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TGGGGT	1689
hde1ta1n	GGTGGGGG	TGTGTGGG	TGTGTGGG	GGGGGGCTG	GGGGGGCTG	GGGGGGGG	GGGGGGGG	GGGGGGCTT	TGGGGT	1847
w80813n	ggcgagccat	ggcgagccat	ggcgagccat	ggcgagccat	ttggatgttttt	ttggatgttttt	ttggatgttttt	ttggatgttttt	tttttttttt	1766

Fig. 3C

Title: NOTCH RECEPTOR LIGANDS AND USES THEREOF
Express Mail No.: EV398879023US Docket No.: 59516-159/PP-01602.006
USAN: 10/644,548

3md3	CTGAAAGATG TAGACCACTCA AEGGAATTAT GTCATAATCTG CTCCTTCCAT CTACCTCTGG GAGGCCCTGA.....	1752
mouseed113n	CTGAAAGATG GAGACTCTAG ATCCATTAT GTCATAACCAG CGCCTTCCAT TTATGCACGA GAGGCCCTGA.....	1758
hdelta1n	CTGAAAGATG GACTTCAAG GGGACACAG CGCCGACAAG TAAAGCCCG CTACCTAGS GTGGACTATA ACCTCTGCA GGACCTCAAG GGTGA.....	1949
w80813n	CTGAAAGATG GAGCTGGAG CCTGGATGG AGAACTGTG gcaaaAGca tggactata atctggcccc agggccctg gg.....	1868
3md3	.....	1752
mouseed113n	.....	1758
hdelta1n	.....	2054
w80813n	.....	1954
3md3	.....	1752
mouseed113n	.....	1758
hdelta1n	.....	2159
w80813n	.....	2045
3md3	.....	1752
mouseed113n	.....	1758
hdelta1n	.....	2183
w80813n	.....	2055

Fig. 3D